

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Ardith Hertzog Examiner #: 71465 Date: 4.22.04
 Art Unit: 1754 Phone Number 302-1347 Serial Number: 10/688,317
 Mail Box and Bldg/Room Location: BEM9A20 Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: - see attached BIBDATA.SHT.

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for
 IRON SULFIDES
 on the formula given in
 attached claims 18 & 20

(*My case is a division of
 prior 10/053,674, for which I've
 attached a copy of the prior STIC
 search strategy - I'm wanting to
 re-search/update that search)
 (since this
 is a new
 case)

THANK YOU !!

STAFF USE ONLY

Type of Search	Vendors and cost where applicable
Searcher: _____	NA Sequence (#) _____ STN _____
Searcher Phone #: _____	AA Sequence (#) _____ Dialog _____
Searcher Location: _____	Structure (#) _____ Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____ Dr.Link _____
Date Completed: _____	Litigation _____ Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____ Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____ WWW/Internet _____
Online Time: _____	Other _____ Other (specify) _____



STIC Search Report

EIC 1700

STIC Database Tracking Number: 120140

TO: Ardith Hertzog
Location: REM 9A20
Art Unit : 1754
April 27, 2004

Case Serial Number: 10/688317

From: Barba Koroma
Location: EIC 1700
REM EO4 A30
Phone: 571 272 2546

barba.koroma@uspto.gov

Search Notes

Examiner Hertzog,

Please find attached results of the search you requested. Various components of the claimed invention as spelt out in the claims were searched in multiple databases. For your convenience, titles of hits have been listed to help you peruse the results set quickly. This is followed by a detailed printout of records. Please let me know if you have any questions.

Thanks.

=> file reg

FILE 'REGISTRY' ENTERED AT 16:57:03 ON 27 APR 2004

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 APR 2004 HIGHEST RN 676992-14-6

DICTIONARY FILE UPDATES: 26 APR 2004 HIGHEST RN 676992-14-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> file caplus

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FILE COVERS 1907 - 27 Apr 2004 VOL 140 ISS 18

FILE LAST UPDATED: 26 Apr 2004 (20040426/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> file metadex

FILE 'METADEX' ENTERED AT 16:57:10 ON 27 APR 2004

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FILE LAST UPDATED: 6 APR 2004

<20040406/UP>

FILE COVERS 1966 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN THE
BASIC INDEX (/BI) <<<

=> file compendex

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FILE COVERS 1970 TO DATE.

<<< SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN
THE BASIC INDEX >>>

=> file wpix

FILE 'WPIX' ENTERED AT 16:57:21 ON 27 APR 2004

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FILE LAST UPDATED: 26 APR 2004 <20040426/UP>

MOST RECENT DERWENT UPDATE: 200427 <200427/DW>

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
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>>> THE DISPLAY LAYOUT HAS BEEN CHANGED TO ACCOMODATE THE
NEW FORMAT GERMAN PATENT APPLICATION AND PUBLICATION
NUMBERS. SEE ALSO:

<http://www.stn-international.de/archive/stnews/news0104.pdf> <<<

>>> SINCE THE FILE HAD NOT BEEN UPDATED BETWEEN APRIL 12-16
THERE WAS NO WEEKLY SDI RUN <<<

=> d que

L12 5160 SEA FILE=REGISTRY ABB=ON PLU=ON 0-.2/LI

L13 3775 SEA FILE=REGISTRY ABB=ON PLU=ON 0-.2/NA
 L14 3006 SEA FILE=REGISTRY ABB=ON PLU=ON 0-.2/K
 L15 514 SEA FILE=REGISTRY ABB=ON PLU=ON 0-.2/RB
 L16 530 SEA FILE=REGISTRY ABB=ON PLU=ON 0-.2/CS
 L17 0 SEA FILE=REGISTRY ABB=ON PLU=ON 0-.2/FR
 L18 12113 SEA FILE=REGISTRY ABB=ON PLU=ON (L12 OR L13 OR L14 OR L15 OR
 L16 OR L17)
 L19 21231 SEA FILE=REGISTRY ABB=ON PLU=ON 0-.5/MG
 L20 23232 SEA FILE=REGISTRY ABB=ON PLU=ON 0-.5/CA
 L21 40717 SEA FILE=REGISTRY ABB=ON PLU=ON L19 OR L20
 L24 24691 SEA FILE=REGISTRY ABB=ON PLU=ON FE(L)S
 L25 229710 SEA FILE=CAPLUS ABB=ON PLU=ON L24
 L26 24542 SEA FILE=CAPLUS ABB=ON PLU=ON L18
 L27 56222 SEA FILE=CAPLUS ABB=ON PLU=ON L21
 L29 24061 SEA FILE=REGISTRY ABB=ON PLU=ON FE(L)S/ELS
 L30 214393 SEA FILE=CAPLUS ABB=ON PLU=ON L29
 L34 16146 SEA FILE=CAPLUS ABB=ON PLU=ON IRON(5A)SULFIDE?
 L35 389 SEA FILE=CAPLUS ABB=ON PLU=ON (L25 OR L30 OR L34) AND L26
 AND L27
 L53 17 SEA FILE=CAPLUS ABB=ON PLU=ON L35 AND IRON(4A)SULFIDE? AND
 (PRODUC? OR PROCESS? OR MAKE OR MAKING OR MANUFACT? OR SYNTH?
 OR FABRIC? OR MANUF? OR SYNTH?)
 L56 7 SEA FILE=WPIX ABB=ON PLU=ON IRON(4A)SULFIDE?(4A)(PRODUC? OR
 PROCESS? OR MANUFACT? OR TREAT?) AND (METAL(4A)ALKALI? OR
 CALCIUM OR MAGNESIUM OR LITHIUM OR POTASSIUM OR SODIUM OR
 RUBIDIUM OR CESIUM OR FRANCIUM)
 L57 7 SEA FILE=METADEX ABB=ON PLU=ON IRON(4A)SULFIDE?(4A)(PRODUC?
 OR PROCESS? OR MANUFACT? OR TREAT?) AND (METAL(4A)ALKALI? OR
 CALCIUM OR MAGNESIUM OR LITHIUM OR POTASSIUM OR SODIUM OR
 RUBIDIUM OR CESIUM OR FRANCIUM)
 L58 9 SEA FILE=JICST-EPLUS ABB=ON PLU=ON IRON(4A)SULFIDE?(4A)(PRODU
 C? OR PROCESS? OR MANUFACT? OR TREAT?) AND (METAL(4A)ALKALI?
 OR CALCIUM OR MAGNESIUM OR LITHIUM OR POTASSIUM OR SODIUM OR
 RUBIDIUM OR CESIUM OR FRANCIUM)
 L59 17 SEA FILE=COMPENDEX ABB=ON PLU=ON IRON(4A)SULFIDE?(4A)(PRODUC?
 OR PROCESS? OR MANUFACT? OR TREAT?) AND (METAL(4A)ALKALI? OR
 CALCIUM OR MAGNESIUM OR LITHIUM OR POTASSIUM OR SODIUM OR
 RUBIDIUM OR CESIUM OR FRANCIUM)
 L60 0 SEA FILE=COMPENDEX ABB=ON PLU=ON L59 AND MACKINAWITE?
 L61 17 SEA FILE=COMPENDEX ABB=ON PLU=ON L59 OR L60
 L62 53 DUP REM L53 L56 L57 L58 L61 (4 DUPLICATES REMOVED)

all ck'd. 5/4 2004

=> d ti 1-53 162

YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS, WPIX, METADEX, JICST-EPLUS, COMPENDEX' -
 CONTINUE? (Y)/N:y

L62 ANSWER 1 OF 53 JICST-Eplus COPYRIGHT 2004 JST on STN
 TI Mine drainage treatment technology. High-efficiency granulation system
 technology of the precipitate. Fiscal 2002.

L62 ANSWER 2 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
 TI A Biodegradable Chelating Agent is Developed for Stimulation of Oil and

Gas Formations.

- L62 ANSWER 3 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
TI **Iron sulfides, processes for** *this case ✓*
producing the same, **iron sulfide** mixture,
heavy metal treating agent, and method of treating with the agent
- L62 ANSWER 4 OF 53 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
TI Culture medium for detecting Salmonella and Shigella, contains a material
which promotes blackening of Salmonella colonies by the **production**
of **iron sulfide**, and a sugar which cannot be
metabolized by Shigella.
- L62 ANSWER 5 OF 53 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
TI Resource recycling involves decomposing refuse thermally, fixing resulting
hydrogen chloride and hydrogen sulfide gases as alkali salt and iron
oxide, and removing solid content from resulting cracked gas.
- L62 ANSWER 6 OF 53 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
TI Treatment of contaminated aqueous composition involves contacting
contaminated composition with ferrous sulfide.
- L62 ANSWER 7 OF 53 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
TI Treatment of contaminated media, e.g., aquifer, involves employing
electrode structure for controllably applying electric currents.
- L62 ANSWER 8 OF 53 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
TI Assay and recovery of metals and precious metals from complex ores and
concentrates containing **iron**, oxides and **sulfides** uses
aluminothermic **process** to provide total melting of metals and
gangue in charge at extremely high heat.
- L62 ANSWER 9 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI The structure of the Lukkulaivaara intrusion, Oulanka group, Northern
Karelia: petrological implications
- L62 ANSWER 10 OF 53 METADEX COPYRIGHT 2004 CSA on STN
TI Inoculation material improves graphite formation in ductile iron.
- L62 ANSWER 11 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of colored mineral powders by thermal treatment and materials
colored therewith
- L62 ANSWER 12 OF 53 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
TI **Production** of yellow flaky **sodium sulfide**
with low carbon and **iron** contents - involves calcining saltpetre
and anthracite to produce stock **sodium** sulfide which is hot
dissolved to obtain **sodium** sulfide solution as intermediate.
- L62 ANSWER 13 OF 53 JICST-EPlus COPYRIGHT 2004 JST on STN
TI Fundamental Study of Remediation Technology for Mercury Contaminated Soil
by Low Temperature Thermal **Treatment** Using **Iron**
Sulfide.
- L62 ANSWER 14 OF 53 JICST-EPlus COPYRIGHT 2004 JST on STN DUPLICATE 2

- TI **Production of Hydrogen Sulfide** from Tetrathionate by the **Iron-Oxidizing Bacterium Thiobacillus ferrooxidans NASF-1.**
- L62 ANSWER 15 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Microfossils and paleoenvironments in deep subsurface basalt samples
- L62 ANSWER 16 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparing colored mineral powders by chemical treatment, thermal treatment or irradiation
- L62 ANSWER 17 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Colored mineral powders prepared by a combination of thermal, chemical, and irradiation **processes**, and materials colored with the powders
- L62 ANSWER 18 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Pigments obtained by treatment of minerals
- L62 ANSWER 19 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Pigments obtained by treatment of minerals
- L62 ANSWER 20 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI Chelating agents in sour well acidizing: Methodology or mythology.
- L62 ANSWER 21 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Late Miocene magmatic-hydrothermal systems in the Jozankei-Zenibako district, southwest Hokkaido, Japan
- L62 ANSWER 22 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Pigments **manufactured** from minerals
- L62 ANSWER 23 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Pigments **manufactured** from minerals
- L62 ANSWER 24 OF 53 METADEX COPYRIGHT 2004 CSA on STN
TI Hazardous material decontamination with **potassium** permanganate for refinery turnarounds.
- L62 ANSWER 25 OF 53 METADEX COPYRIGHT 2004 CSA on STN
TI A love affair with sulfur.
- L62 ANSWER 26 OF 53 JICST-EPlus COPYRIGHT 2004 JST on STN
TI Knowledge pursuit in research and technological development. Rise and fall in chemical processes.
- L62 ANSWER 27 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI Acid/rock interactions during stimulation of sour water injectors in a sandstone reservoir.
- L62 ANSWER 28 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI Recovery of lime, sulfur, and iron from gypsum and pyrite wastes.
- L62 ANSWER 29 OF 53 METADEX COPYRIGHT 2004 CSA on STN
TI Sulphur containing sediments influenced wear of superheater tubes.

- L62 ANSWER 30 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI Anoxic treatment of trifluralin-contaminated soil.
- L62 ANSWER 31 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Serial mineralogy and prospecting significance of tourmaline in sulfide ore deposit from East Liaoning rift zone
- L62 ANSWER 32 OF 53 JICST-EPlus COPYRIGHT 2004 JST on STN
TI Seedling Emergence and Establishment of Direct-sown Paddy Rice in Soils Incorporated with Substances Produced in Reductive Paddy Soil.
- L62 ANSWER 33 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Mineral chemistry and conditions of crystallization of the Fe-Ni-Cu sulfide-bearing mafic plutonic suite in the southern tip of the Aravalli mountain range [India]
- L62 ANSWER 34 OF 53 JICST-EPlus COPYRIGHT 2004 JST on STN
TI Copper Removal from High Carbon Iron Melt by Treatment with Sulfide Flux.
- L62 ANSWER 35 OF 53 METADEX COPYRIGHT 2004 CSA on STN DUPLICATE 3
TI Effect of Calcium Sulfate Particles on Corrosion and Erosion-Corrosion of Carbon Steel.
- L62 ANSWER 36 OF 53 JICST-EPlus COPYRIGHT 2004 JST on STN
TI Neutralization of Acid Water from Oxidation of Iron Sulfide Ore.
- L62 ANSWER 37 OF 53 METADEX COPYRIGHT 2004 CSA on STN
TI A New Process for Copper Removal From Ferrous Scrap.
- L62 ANSWER 38 OF 53 JICST-EPlus COPYRIGHT 2004 JST on STN
TI Manganese removal from high carbon iron melt by treatment with sulfide flux.
- L62 ANSWER 39 OF 53 JICST-EPlus COPYRIGHT 2004 JST on STN
TI Copper removal from high carbon molten iron by sulfide treatment.
- L62 ANSWER 40 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI Iron-control additives improve acidizing.
- L62 ANSWER 41 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI The oxidized profile of BIF-associated lead-zinc mineralization: Pegmont, northwest Queensland, Australia
- L62 ANSWER 42 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI ELECTRODE REACTIONS IN THE REDUCTION OF IRON SULFIDES IN PROPYLENE CARBONATE.
- L62 ANSWER 43 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI NOVEL PROCESS FOR TRANSFORMING SELECTED METAL SULFIDES TO OXIDES WITHOUT EMITTING SULFUR-CONTAINING GASEOUS POLLUTANTS.
- L62 ANSWER 44 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI Increasing the Cadmium Yield During the Roasting of Zinc Concentrates with

a Calcium Oxide Additive.

O POVYSHENII IZVLECHENIYA KADMIYA PRI OBZHIGE TSINKOVYKH KONTSETRATOV S DOBAVKOI OKSIDA KAL'TSIYA.

L62 ANSWER 45 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI RECOVERY AND REUSE OF IRON COAGULANTS IN WATER TREATMENT.

L62 ANSWER 46 OF 53 METADEX COPYRIGHT 2004 CSA on STN DUPLICATE 4
TI Phase Equilibria in the Pyrometallurgy of Sulfide Ores.

L62 ANSWER 47 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Analysis of mineral matter in coals of the Ruhr under gasification conditions

L62 ANSWER 48 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI FACTORS AFFECTING THE HOT CORROSION OF INCOLOY 800 AND 802 FURNACE TUBES.

L62 ANSWER 49 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI Reduction of Trivalent Iron in Slag Melts by Calcium Sulfide.
VOSSTANOVLENIE TREKHVALENTNOGO ZHELEZA V SHLAKOVYKH RASPLAVAKH SUL'FIDOM KAL'TSIYA.

L62 ANSWER 50 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI Desulfurization of Blast Furnace Iron and Modification of the Sulfides in Steel.
LA DESULFURATION DE LA FONTE ET LA MODIFICATION DES SULFURES: MESURES POUR L'AMELIORATION DES PROPRIETES DES ACIERS.

L62 ANSWER 51 OF 53 COMPENDEX COPYRIGHT 2004 EEI on STN
TI Alteration of sediments by natural gases in western Merced County, California.

L62 ANSWER 52 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Mineralogy of the Adzhar polymetallic deposits

L62 ANSWER 53 OF 53 CAPLUS COPYRIGHT 2004 ACS on STN
TI Tabulated diffraction data for tetragonal isomorphs

=> d all 1-53 162

YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS, WPIX, METADEX, JICST-EPLUS, COMPENDEX' -
CONTINUE? (Y)/N:y

L62 ANSWER 1 OF 53 JICST-EPlus COPYRIGHT 2004 JST on STN
AN 1030605978 JICST-EPlus
TI Mine drainage treatment technology. High-efficiency granulation system technology of the precipitate. Fiscal 2002.
SO Kohaisui Taisaku Gijutsu / Heisei 14 Nendo Kokoritsu Denbutsu Zoryu Shisutemu Gijutsu, (2003) pp. 211P. Journal Code: N20031366 (Fig. 74, Tbl. 64, Ref. 5)
CY Japan
DT Journal; Article
LA Japanese